

The Wobbly Oscillator



Hams Who Serve

Cuyahoga Amateur Radio Society

May 2023

Volume 53

Number 5



May Means Hamvention

From The Prez

The Hamvention Bus

One of CARS' most popular activities, and a tradition that goes back for decades, is the Hamvention bus. Its existence was questioned this year due to lack of ridership last year and the topsy-turvy status of the Hamvention itself because of the pandemic. This year our goal is to increase the number of riders and minimize or neutralize our financial expenditure. We have done several things to accomplish that goal. Mainly, we have kept the price at \$50 despite a sizeable increase from the bus company. With prices on just about everything going through the roof, that's pretty amazing. Even with a vehicle that gets average fuel mileage, it's still less expensive to take the bus. On top of that, you can relax or sleep, converse with fellow hams, and easily transport long antenna components. And to really sweeten the deal, we will reserve a seat on next year's bus for \$50 figuring the cost will almost certainly go up.

Having a convenient way to travel to the Hamvention is only part of the attraction to attend. The event has gotten much better since moving to the Greene County Fairgrounds. There are more vendors and forums. It is more organized, well lit, and much more comfortable. There is an endless train of golf cart shuttle vehicles ready to whisk attendees from the buildings to the parked bus for a rest or to stash purchased equipment. The biggest improvement at the new venue is the availability of excellent food. I've heard some say they can't wait to chomp into one of their favorite delicacies served on the midway.

I say it every year, and I will say it again. Many hams travel to the Hamvention from all over the globe at great expense and time invested. We, on the other hand, can get there for a "half-a yard" and a few hours traveling with good friends in comfort.

Please spread the word to other hams letting them know reservations, payment, and Hamvention tickets are all available on the CARS website.

If you have never been to the Hamvention – make this your year to go.

Positions Wanted (NEEDED)

A club can be defined as an association of people with a common interest or goal. Our interest is amateur radio. Our goals are numerous. Besides promoting amateur radio information, involvement in public service, and increasing members' technical knowledge, we strive to have activities that are fun and enjoyable. These activities don't just happen – we need people to make them happen.

We are getting desperate for a Picnic/Holiday Party committee chairman. Although there is a committee in place, ready and willing to give support, we need a head honcho. Without one, these events will be dead in the water. So far, no one has stepped up. We need a volunteer now.

With our current secretary, Matt, KE8OZU, taking over as treasurer, we need a new secretary. This is a position we must fill. We need and always have recorded the business conducted at club meetings. We require someone to take over in 2024.

73, Toby, WT8O

Next CARS Meeting

Tuesday, May 9th - 7:30 PM

Chuck Mehozonek, K8CVM

Will present a program on:

Nano Vector

Network Analyzer

Busch Community Room

See Website for Details - www.2cars.org

**WELCOME NEW
MEMBERS**

**DAVE AUTRY
WD8IOU**

**DAVID GRAHAM
KD8PLC**

***"I've got sunshine on a cloudy day.
When it's cold outside,
I've got the month of May."***

-Ronnie White/Smokey Robinson

April 2023 Meeting Minutes

LOCATION — The meeting was held on April 11th at the Busch Funeral Home on Ridge Road in Parma, Ohio

CALLED TO ORDER — The meeting was called to order by President Toby Kolman, WT8O, at 7:34 PM

PLEDGE OF ALLEGIANCE — Those present pledged allegiance to the flag of the United States of America.

INTRODUCTIONS — Those present introduced themselves. 22 individuals attended the meeting, all of whom were members.

MARCH MINUTES — The March minutes were approved as published in the WO.

TREASURER'S REPORT — Bob Check, W8GC, reported on the Club's current financial situation. No issues or concerns were identified. Recent Club income includes annual dues and sold items.

PRESIDENT'S REPORT — Toby Kolman, WT8O, reported the following:

- Toby presented Bob, KC8MRC, with an award for most Net check-ins.
- Several Club positions need to be filled. New members are welcome to apply to chair any committee. The committees are already in place. The open positions include summer picnic / holiday party committee chair, Quartermaster, Historian and WO Editor.
- Thanks to everyone for their WO contributions, especially Andy, KD8SCV, Ron, K8RJH, John, NU8Y and Metro, W8MET. Articles can be about anything of interest to members, including vacations and new equipment.



CARS members packed the Busch Community Room for the April meeting.

VICE PRESIDENT'S REPORT — Ron Hollas, K8RJH, reported the following:

- Thanks to Toby, WT8O, for editing the *WO*
- The ARRL recently sent a survey to members via email. This survey will help the ARRL determine where the ARRL will expand services in the future. Ron will send a link to all Club members.
- Members should buy their tickets for Hamvention and the Club Hamvention bus now.
- The ARRL recently approved the rules for Field Day 2023, which can be found at <https://www.arrl.org/field-day-rules>.
- World Amateur Radio Day will occur on April 18. More information can be found at <https://www.arrl.org>.
- ARRL membership has value both to the Club in terms of additional income to the Club and to members including its long standing presence, growing services, focus on public service, education, advocacy and technology access.
- There is a Radio Amateurs of Canada Special event that will run May 5-July 2. The event will honor the coronation of King Charles III. Operators will be able to use special event callsigns. For example, VE3 becomes CK3, VA7 becomes CJ7 and VY2 becomes CZ2. More information can be found at <https://www.rac.ca/special-event-call-signs-for-the-coronation-of-king-charles-iii/>.
- Check out the latest ARRL podcast.
- ARRL audio news is posted every Friday.

SECRETARY'S REPORT — Secretary Matt Perlman, KE8OZU, stated that he was interested in filling the Treasurer position that will be open at the end of the year. If someone else is interested in becoming the Club Secretary, Matt will train him or her. If someone else is interested in becoming the Treasurer, he or she should take that position and Matt will remain Secretary.

PUBLIC SERVICE — Chuck, K8CVM, reported the following:

- N8ESG, <https://n8esg.org/>, has a full list of events.
- There is an ARES meeting on April 18 at the Helwig Whistle Stop in Berea, OH.
- There is an NVIS event on April 22 10am-4pm at the Middleburg Heights Library.
- On May 3, both the MS Walk and the Wolf Walk will occur downtown.
- The Cleveland Marathon in May 20-21. The event is an official ARES activation. The Marathon will provide vehicles for those who volunteer. Anyone going to Dayton on May 20 can still volunteer to help with the Marathon on May 21.



WT8O calls the meeting to order.

VE UPDATE — Metro, W8MET, reported that the next VE session will be at 9:15 AM on May 14th at the Old Rec Center in Independence. There is a Hamfest in Cuyahoga Falls the weekend of April 15-16.

PROGRAM COMMITTEE — Joe, KD8BAL, reported that upcoming presentations for CARS meetings include:

- Today's program is David, AC8TN, presenting Yaesu WIRES-X Introduction.
- May's program will be Chuck, K8CVM, presenting on NanoVNA.
- Please contact Joe with ideas for future programs.
- Thanks to volunteers who present to the Club.

TECH COMMITTEE — Scott, AC8NW, had nothing to report.

DAYTON BUS — Eddie, KD8FTS, reported that 14 people have signed up for the bus so far, including two Club members. The bus will make 2-3 stops this year. Fliers for the bus were available at the meeting. More information and registration can be found on the Club website (<https://www.2cars.org>).

FIELD DAY — Field Day is June 24-25. There are minimal rule changes from last year. Volunteers are needed. More information will be provided during the May meeting. T-shirts are available now. Let David, AC8TN, know if you are interested in operating CW.

QUARTERMASTER — Toby, WT8O, had no updates to report. Toby is acting as the interim Quartermaster until a volunteer takes the position permanently.

HISTORIAN — Toby, WT8O, had no updates to report. The next task for the Historian is to document the story of the Club logo. Toby is acting as the interim Historian until a volunteer takes the position permanently.

REFRESHMENTS — Toby, WT8O, thanked Ron, K8RJH, for providing soft drinks, Matt, NU8H, for providing doughnuts and John, NU8Y, for providing coffee (and doughnuts this month).

OLD BUSINESS — Toby, WT8O, led a discussion on the following:

- CARS will assist with the Seven Hills Memorial Day parade again this year. The city has a new parade coordinator. Please email Toby if you are interested in helping.
- Metro, W8MET, has filled the open QSL Manager position.
- The Treasurer position is still open and will be filled
- by Matt, KE8OZU if no one else volunteers.

NEW BUSINESS — Toby, WT8O, led a discussion on the following:

- Eddie reminded the Club that a new distracted driving law went into effect on April 9, 2023. More information can be found in the March WO.

NEXT MEETING — The next meeting of The Cuyahoga Amateur Radio Society will be May 9, 2023 at the Busch Funeral Home on Ridge Road in Parma, Ohio.



Bob, KC8MRC, accepts his very well-deserved award for the most check-ins to the CARS nets in 2023.



Scott, AC8NW, buys what he hopes to be the winning 50/50 ticket from Andy, KD8SCV.



As always, the April meeting began with the group pledging allegiance to the flag of the United States of America.

50/50 Drawing — Scott, AC8NW, won the 50/50 drawing.

ADJOURNMENT — Toby, WT8O, adjourned the meeting at 8:14 PM.

After the meeting, David Korow, AC8TN, presented a Yaesu WIREX-X Introduction.

Submitted by Matt Perlman, KE8OZU, CARS Secretary

David, AC8TN, presented an exceptional overview on WIREX X endeavoring to familiarize the group on how to use the system and hoping to increase the usage of the newly installed way of communicating worldwide on the CARS repeater.



CARS Board of Directors Meeting April 11, 2023

LOCATION — Busch Funeral Home on Ridge Road in Parma, Ohio

MEMBERS IN ATTENDANCE — Mark Moro, WJ8WM, Board Chairman; Ron Hollas, K8RJH; Toby Kolman, WT8O; Bob Check, W8GC; Terry Pillatt, KB8DTC; Bob Robbins, K8RGI; Scott Smith, AC8NW; Matt Perlman, KE8OZU.

CALLED TO ORDER — The meeting was called to order by Board Chairman Mark Moro, WJ8WM, at 6:46 PM.

MOTION — Bob, W8GC, motioned, Toby, WT8O, seconded and the Board unanimously approved the following:

- The Fundraising Committee is authorized to apply for grants for the club.
- The Fundraising Committee will provide details of the grants to the Board.

DISCUSSION — The Board discussed the following items:

- Multiple grant categories are available to the Club based on its 501(c)(3) status.
- The grants have different conditions and values.
- Grants could cover items like Repeater upgrades, Repeater internet connectivity, the CARS website, community activities and other items that the Club currently pays for out of its treasury.
- The Fundraising Committee is also considering setting up a table at Independence or Seven Hills Home Days to sell raffle tickets and will bring details to a future Board Meeting for approval for any plans.

ADJOURNMENT — Mark, WJ8WM, adjourned the meeting at 7:00 PM.

Submitted by Matt Perlman, KE8OZU, CARS Secretary



146.820 (-) PL Tone 110.9

Analog Repeater

Main Site – Brecksville

Receive Only Site – Brunswick

Receive Only Site – Shaker Hts.

Receive Only Site - Parma

Allstar Node 47067

EchoLink Node 343470 (K8ZFR-R)

WIRES X Node 91242 Room 01242

443.825 (+) PL Tone 131.8

Digital Yaesu Fusion

Linked to 146.820 Repeater

Brecksville

444.75 (+) PL Tone 131.8

Analog Repeater

Not Linked to Other Repeaters

Shaker Hts.



Practice Safe Listening

Ron, K8RJH

Amateur Operators are known for their safe operating skills both in the home and in the field. Since the invention of the “Radio Headset” by Nathaniel Baldwin in 1910, there has not been much extensively published on the safety and proper use of headphones as they have technically evolved. These personal hearing devices are used in a wide range of applications in many environments since their invention and have become extremely popular across all age group demographics. Amateur Radio headphones are no exception with many available models used in high and low noise ambient conditions, noise cancelling and even some with advanced DSP active filtering capability.

The first Headphone was built by trial and error in Nathaniel Baldwin’s kitchen. His idea was to replace the cumbersome shoulder mounted speaker and tube assemblies to improve the audio experience over directional room speakers used in the 1800’s. What was unique about Baldwin’s design is that a small sound transducer fit over the ears suspended by a headset band allowing the individual freedom of movement while “listening”. He went to several investors in the early 1900’s who dismissed novel design. Baldwin eventually found interest with the US Navy who ordered 100 units of the “Radio Headset” and found them quite satisfactory in radio room operation. Unfortunately, Baldwin did not patent the design and it was quickly replicated through new suppliers.



*10 pound
operator
headphone
used in the
1880's (L)*

*Nathaniel Baldwin
1910 original
headset (R)*



Today the headset market is over \$2.4 Billion USD annually and growing. With today’s different uses and configurations for headsets, their safe and proper use of these devices are often overlooked. Besides improving the personal experience of listening, headphones and earbuds can also have a significant impact on your wellbeing, both good and bad.

Most of us wear headphones or earbuds every day. You may even have a favorite set of headphones that you've been wearing for years without ever cleaning or replacing the ear pads. This would put any germaphobe on red alert, but when it comes to headphone safety, microbes aren't the only thing Amateur Operators need to worry about.

While headphones and earbuds can cause infections, the good news is that it is to be a rather rare occurrence.

Earbuds and some earphones are like hearing aids in that they seal up the ear canal, trap moisture and earwax, and may encourage the growth of fungi and bacteria if used improperly and frequently. The risk usually remains low, unless a scratch or a reaction to a material found in the earbuds provides a way for the microbes to infect your ear. Here are a few pointers on what you can do for best practices with headphone use:

Avoid skin contact with materials you're allergic to. Nickel is a common component of stainless steel and is used with the charging contacts and the acoustic mesh that covers the tip of each earbud. People allergic to nickel might still develop skin reactions upon contact. Also, silicone ear tips can cause contact dermatitis. Scratching your irritated and itchy skin can lead to an ear infection. A quick solution can be to replace the silicone ear tips with foam ear tips.

Be sure to know if you have a sensitivity to "Acrylates". They are commonly found in adhesives and are used to color plastics. Earbuds often contain trace amounts of acrylates and methacrylates which can compromise headphone safety for those with a sensitivity to these materials. The tiniest amount of acrylate buildup may be enough to trigger a reaction.

Always, clean new headphones or earbuds before you use them for the first time. Then, regularly clean all your headgear; at least once a week (and after each physical sweat-inducing chore or workout).

Avoid sharing earbuds and clean headphones before and after you share them. Finally, limit your use of headphones and earbuds to a couple of hours per day.

Additionally, many people report dizziness, motion sickness, or vertigo when using headphones. Active noise cancelling (ANC) headphones are a common culprit because the lack of external noise can fool your ears and confuse your brain. If you experience nausea or vertigo while using ANC, try turning the ANC down or off.

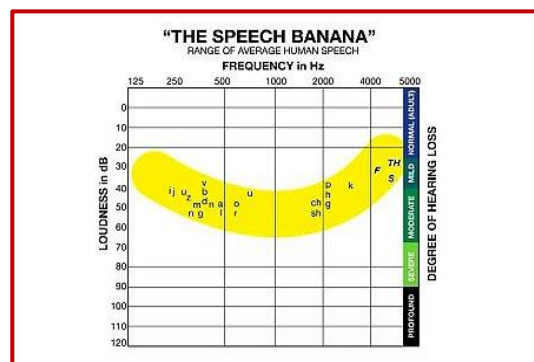
Headphones and earbuds can cause noise-induced hearing loss (NIHL), but it's easy to avoid. Most headphones max out at 115dB Sound Pressure Level or "SPL". So be sure to keep your volume levels well below 100% or limit your listening time if you must go over. To stay on the safe side, you could also try volume-limited headphones. A volume limiter literally limits audio output to a safe listening level, typically 85dB (SPL).



First wireless headphone from the 1960's.



The Beatlephone by Koss.



The Speech Banana Graph showing the sound range of human speech.

The best thing you can do to use your headphones safely is to limit the volume to 85dB (SPL) or less, which is approximately 60% of the maximum volume. You should also set yourself a time limit. A good practice is the 60/60 rule, i.e., listen at 60% volume for 60 minutes, then give your ears a 30-minute break. Finally, be sure to clean your headphones and earbuds regularly.

Hearing loss sneaks up on all of us as we age. It usually affects higher frequencies first. Those are non-critical because they don't affect speech recognition. But when hearing loss starts to show up, it gets serious. Take a minute and complete a free online hearing test (see below link) to find out whether you're affected.

Yes, over-ear headphones tend to be safer than in-ear earphones for Amateur Radio operations. Over-ear headphones with effective passive noise isolation or active noise cancelling are better at blocking out external noise, meaning you can enjoy your audio at lower volumes.

All good safety practices, even on how we hear, will help with the full experience and enjoyment of Ham Radio.

For additional information:

<http://www.sengpielaudio.com/TableOfSoundPressureLevels.htm>
<https://www.soundguys.com/free-online-hearing-test-61018/>
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5501022/>

May VE Session

The next VE testing session will be held Sunday, May 14th, at **9:15 AM*** at the Old Elmwood Recreation Center, 6200 Pete Wisniesky Parkway, Independence 44131.

Directions and a map are on the CARS website homepage.

Required documentation to bring in is also on the CARS website homepage.

For information or an appointment please contact Metro, W8MET, at 216-520-1320 or metro351@sbcglobal.net

As always, walk-ins are welcome.

***Please note the time change to 9:15 AM.**

The *Wobbly Oscillator* is a publication of the Cuyahoga Amateur Radio Society, P.O. Box 31264, Independence, Ohio, 44131-0264. Articles from this publication may be reprinted in any ham radio publication, if credit is given to this publication and the author, if known. All submissions should be emailed to: wt8o@att.net

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May Net Sked

MAY	3	KD8ACO
MAY	10	AC8TN
MAY	17	AC8NW
MAY	24	WT8O
MAY	31	K8RJH

**Nets are run every Wednesday at
9:00 PM on:**

146.820 (PL 110.9)

**443.825(+) PL Tone 131.8
Digital Yaesu Fusion
Linked to the 146.82 Repeater**

EchoLink Node 343470 (K8ZFR-R)

Allstar Node 47067

WIRES X Node 91242 Room 01242

Every Day Carry

Toby, WJ8D

A while back I wrote a short piece about our illustrious Board Chairman Mark, WJ8WM, calling him “Mark Scissorhands” since he would always whip out a tool from one of his numerous pockets and hand it to me while we were working on something. I also referred to the old adage - a man isn’t dressed without a pocketknife.

It got me thinking enough to ask Mark what he normally kept with him. His immediate response was “For me, Every Day Carry includes:

Wristwatch
Cell phone
Fisher Spacepen (work days)

Left front pocket:
Streamlight Micro LED flashlight
SOG Pentagon Elite I folding knife (workdays)
Pentagon Elite II (weekends)
Stanley Fatmax 6 ft. tape measure
Fisher Spacepen Bullet mini pen
Sharpie mini fine point marker
Swisstech folding pliers w/ Straight &
Phillips screwdrivers
Squeeze coin purse w/ handcuff key
ID / badge wallet (workdays)
USB flash drive (workdays)

Right front pocket:
Wallet w/ credit card multitool & emergency cash
Swiss Army Boy Scout edition pocketknife
Several challenge coins including 1 w/ Morse code
Pill fob
Chapstick

Left rear pocket:
Sm. notebook (weekends)

Right rear pocket:
Large handkerchief / emergency sling or tourniquet
SOG EOD folding multitool
Pocket comb

I Usually wear work boots w/ paracord laces (workdays).
When the situation dictates, a legally carried Glock pistol.

From Mark’s perspective, it appears “Edward Scissorhands” was practically unarmed.

NASA Report

Bob, KC8MRC

At 3:15 PM, April 8, 2024, there will be a total solar eclipse that will pass through Cleveland, Ohio. So, get your shoe box telescopes ready. The next total solar eclipse to come through Cleveland, Ohio will be in the year 2444.

Wolf 1069 b is about 31.2 light years from earth and has a size and mass comparable to earth.
It orbits its home star every 15 days, and has a temperature of -25 F to +15 F degrees, making it on the cold side, but livable.

Memorial Day Parade

Toby, WJ8D

CARS has for many years supported the Seven Hills Memorial Day Parade with communications and traffic control. In return the city has provided us locations for our licensing classes, Morse code classes, and Field Day. We have obtained the "Recognized Organization" status with Seven Hills.

I'm proud to say we have done an outstanding job at the parade in the past with a nice-sized group of volunteers. I mentioned the need for help at the April meeting and asked anyone wishing to help to please email me. I also announced the same request on the nets. This year we only have one volunteer so far besides me.

Please email me if you can help out at the Seven Hills Memorial Day Parade.

RF Exposure

Toby, WJ8D

The FCC requires all amateur stations to complete an RF Exposure (RFE) evaluation by May 3, 2023. The evaluation needs only to be kept on file at each amateur station. It needs to have data on each transmitter, antenna, band, and mode.

The ARRL website, www.arrl.org, comes to the rescue of hams by providing a RF Exposure Calculator, as well as RFE Calculator instructions. The ARRL website also has a section on FCC RF-Exposure Regulations. All the information is easy to find simply by typing "rf exposure" in the keyword search box.

Even with time being short, the evaluation can be done rather quickly. Most amateur stations will comply, especially those running low to medium power. If one gets stuck, the ARRL staff is always there to help.

One last thing. You don't need to be an ARRL member to access the above-mentioned information on their website; BUT if you are not an ARRL member - it would be a perfect time to join.

Good luck

Honorary Members

Any person who by nature of outstanding or meritorious contribution to the furtherance of amateur radio and the ideals of the Cuyahoga Amateur Radio Society

Robert Check, W8GC

Elected 2/10/15

Thomas Wayne, WB8N

Elected 1/10/17

Dwaine Modock, K8ME, SK

Elected 5/9/17

Toby Kolman, WT8O

Elected 10/10/17

Jerry Smith, NW9H

Elected 5/8/18

Ron Borkey, K8VJG, SK

Elected 5/14/19

Ed Stevens, WB8ROK, SK

Elected 8/10/21

CARS 2023 Officers & Committees

Audit

K8RJH ** WT8O, KD8FTS

Audio/Video

AC8NW **

ARRL Liaison

K8RJH **

Awards

W8GC ** WT8O

Christmas party & Summer Picnic

WJ8WM **, K8ARP, KD8FTU, KD8FTV

Field Day

K8RGI **, WT8O **, K8ARP, KD8SCV, AC8NW, AC8TN, WT8O, K8RJH

50/50

KD8SCV

Fund Raising

W8GC ** K8RJH, KE8OZU, WA8GCR

Hamvention Bus

KD8FTS **

Club Historian

WT8O **

License classes

KD8ACO **, WT8O, K8SHB

Media Representative

KD8SCV

Membership

WT8O ** W8GC

NET

WT8O **

Newsletter

WT8O ** 440-525-6109
wt8o@att.net

Programs at Meetings

KD8BAL ** KD8FTS, KE8OZU

Property Custodian's

KB8DTC paper records, W8GC donations to sell
WT8O Quartermaster

Public Services

KD8FTS **, K8ARP

QSL Manager - W8HBI, W8BM

WB8N **

Refreshments at Meetings & Picnic

K8RJH ** pop, NU8H ** Donuts, NU8Y ** Coffee

Scholarship

W8GC ** K8RGI, KE8OZU, WT8O, K8RJH

Sunshine (welfare)

Andy, KD8SCV ** 440-886-0723

Technical

AC8NW ** N8OVW, WJ8WM, KD8ACO, K8RJH, KB8DTC

VE Exams

Metro, W8MET ** 216-520-1320

Web Master/e-mail

W8GC ** KE8OZU

**** chairman or co-chairman**

2023 Officers

PRESIDENT

Toby Kolman WT8O 440-525-6109
wt8o@att.net

VICE-PRESIDENT

Ron Hollas, K8RJH, 216-379-7440

SECRETARY

Matt Perlman, KE8OZU, 216-337-1540
Alternate Secretary:

TREASURER:

Bob Check W8GC 216-524-1750
Alternate Treasurer: Bob Robbins, K8RGI

Board Members & License Trustees

Board Chairman:

Mark Moro WJ8WM 216-661-0342

even year executive board 2 year term

AC8NW, KB8DTC, WJ8WM

odd year executive board 2 year term

K8RGI, K8ARP, KD8FTS

License trustee

K8ZFR
WT8O

License trustee

W8HBI, W8BM,
W8GC



March 9, 2023

**Please reserve and pay for your
“2023 Hamvention” ride to Xenia, OH
Bus Trip ASAP.**

**Saturday May 20, 2023 CARS is
sponsoring a Bus trip to the “2023
Hamvention” 5th year at the Green
County Fairgrounds, Xenia, OH.**

*Every amateur radio operator in the world
probably dreams about going to the
Hamvention (AKA Dayton Hamvention) at least
once. Please join us in 2023, it is an incredible
event, and offers something for everyone.*



**The Bus trip will cost \$50.00 dollars per person, this price has not
changed since 2014, we will not stop for breakfast on the way down, but
there “may be” a fast food stop on the way home. You are responsible
for both your food and Hamvention tickets. Go to**

<http://hamvention.org/purchase-tickets> to order your tickets.

The Bus is wheel-chair accessible

*Stop 1: The 56 passenger bus will leave promptly at 5:30 am from in front of
Fin-Feather-Fur at the intersection of Engle and Bagley Roads, in Middleburg Heights,
Engle Road is 1/4 mile west of I-71, parking is behind the Gas station. Vehicles will be
safe, there is security.*

*Stop 2: The bus will also pickup riders at I-71 & Rt 303 at the SE corner of the Marc's
parking lot and will depart non-stop for Xenia at approximately 6:00 am.*

***When ordering tickets please tell us which stop you will be at, plus
we need your email info, name, call and phone number.***

Bus tickets must be purchased and paid for in advance.

**CARS Hamvention Bus tickets can be purchased on the web at
cars.clevelandcomputer.com/**

**If you have any questions, please contact Eddie Stevens, KD8FTS by phone
at 440-888-9536, or email at CARS@KD8FTS.com.**

73, Eddie, KD8FTS